## Claims:

1	1	An electronic	device	comprising
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a sigma delta modulation loop circuit for use in a device having a radio frequency receiver, wherein the loop is configured to compensate for noise that is generated by the sigma delta loop and that affects radio signals within the range of a radio frequency band according to the operating frequency of the radio frequency tuner.

- 2. An electronic device according to Claim 1 wherein that compensation is the placement of a Noise Transfer Function zero at the operating frequency of the radio frequency tuner.
- 3. An electronic device according to Claim 2, wherein the sigma delta modulation loop further includes logic configured to adjust its noise transfer function of the loop in response to a change in the operating frequency of the radio receiver such that the noise generated by the sigma delta loop that affects signals received by the radio receiver are compensated for by the sigma delta modulator loop.